Commonwealth of Kentucky Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Carolina Alonso

GENERAL INFORMATION:	
Name:	Air Products and Chemicals, Inc.
Address:	412 North Main Street
	Calvert City, KY 42029
Date application received:	2/28/2007
SIC Code/SIC description:	2869, Industrial Organic Chemicals
Source ID:	21-157-00009
Source A.I. #:	2915
Activity ID:	APE20070001
Permit:	V-07-009
APPLICATION TYPE/PERMIT ACTIVITY:	
[X] Initial issuance	[] General permit
Permit modification	[] Conditional major
Administrative	[X] Title V
— Minor	[X] Synthetic minor
Significant	[] Operating
[] Permit renewal	[X] Construction/operating
COMPLIANCE SUMMARY: [] Source is out of compliance [] Compliance certification sign	
APPLICABLE REQUIREMENTS LIST:	
	X] NSPS [X] SIP
	X] NESHAPS [] Other
	Not major modification per 401 KAR 51:001, 1(116)(b)
MISCELLANEOUS:	
Acid rain source	
Source subject to 112(r)	
Source applied for federally	enforceable emissions can
Source provided terms for a	<u> •</u>
[X] Source subject to a MACT	e e
Source requested case-by-ca	
[] Application proposes new c	
[X] Certified by responsible off	
[X] Diagrams or drawings inclu	
	nation (CBI) submitted in application
[] Pollution Prevention Measu	• •
[] Area is non-attainment (list	
[] Area is non-attainment (list	ponuants).

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)*	Potential (tpy)
PM/PM_{10}	17.33	43.43
SO_2	5.63	3.14
NOx	167.39	361.68
СО	90.86	334.22
VOC	188.21	1357.04
Single HAPs > 10 tpy Vinyl Acetate Monomer Hydrochloric Acid Methanol	33.51 2.77 22.44	66.10 15.70 29.10
Source wide HAPs	63.92	121.75

^{*} Actual emissions taken from the "2006 Emission Inventory Survey" (TEMPO).

SOURCE DESCRIPTION:

Air Products and Chemicals, Inc. (Air Products), Calvert City, is a chemical manufacturing plant. The source is a major source, as defined by 401 KAR 52:020 Title V Permits, for the potential emissions of over 100 tons per year of nitrogen oxides (NO_X), carbon monoxide (CO), and volatile organic compounds (VOC), the potential of a single hazardous air pollutant (HAP) greater than 10 tons per year, and the potential combined HAP emissions greater than 25 tons per year.

The source is also a major source, as defined by 401 KAR 51:017 Prevention of Significant Deterioration of Air Quality (PSD), for potential emissions of over 100 tons per year of NO_X, CO, and VOC.

For the purpose of Title V permitting, this facility is split into the following areas:

- 1. Vinyl Acetate Monomer (VAM) Storage
- 2. Acetylenics (Specialty Additives) Production Unit
- 3. Air Products Polymers (APP) Emulsions Production Unit
- 4. Plant Utilities
- 5. Cogeneration Plant

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

In order to preclude applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality (PSD) for VOC, the source had elected to accept group emission limits in previous permits. These limits are reflected in Section D of the permit.

OPERATIONAL FLEXIBILITY:

None